# Precalculus Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### 4.6A Worksheet

NO CALCULATOR

Find the exact values for each of the following:

1.  \_\_\_\_\_\_\_\_\_ 2.  \_\_\_\_\_\_\_\_\_ 3.  \_\_\_\_\_\_\_\_\_

4.  \_\_\_\_\_\_\_\_\_ 5.  \_\_\_\_\_\_\_\_\_ 6.  \_\_\_\_\_\_\_\_\_

For each of the following, solve for  ()

7. sin =  \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

8. cos = - \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

9. tan = -1 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

Graph the following. Label the axes. Provide the amplitude, period, phase shift, and vertical shift in the space provided. If any of these do not exist, write *none*. Show at least one complete period of each graph.

10. y = 

Amp.= \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

H. S. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

V. S. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11.

Period = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

H. S. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

V. S. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. y = tan 

Period = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

H. S. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

V. S. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13.

Period = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

H. S. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

V. S. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14.

Period = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

H. S. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

V. S. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_